

NIPPER



RCA VICTOR



AC-DC RADIO RECEIVER

NIPPER

SERVICE DATA

—1950 No. 11—

GENERAL SERVICE DIVISION  
RCA VICTOR COMPANY LIMITED  
MONTREAL, QUE.

## Electrical and Mechanical Specifications

## FREQUENCY RANGES

Standard Broadcast ("A" Band) ..... 540-1,600 kc.

INTERMEDIATE FREQUENCY ..... 455 kc.

## TUBE COMPLEMENT

- (1) RCA-12BE6 ..... 1st Detector-Oscillator  
(2) RCA-12BA6 ..... IF Amplifier  
(3) RCA-12AV6 2nd Detector, A.V.C. and A-F Amplifier  
(4) RCA-50C5 ..... Output  
(5) RCA-35W4 ..... Rectifier

POWER SUPPLY POLARITY—For operation on d-c, the power plug must be inserted in the outlet for correct polarity.

## POWER SUPPLY RATINGS (D-C or 25/60 cycles A-C)

105-125 volts ..... 30 watts

## POWER OUTPUT RATING

Undistorted ..... 1.0 watt

Maximum ..... 1.5 watts

## LOUDSPEAKER

Type ..... 5-inch Permanent-Magnet Dynamic

Voice Coil Impedance ..... 3.2 ohms at 400 cycles

Tuning Drive Ratio ..... Direct Drive

## CABINET DIMENSIONS

Width 11 $\frac{3}{8}$ "—Height 6 $\frac{1}{8}$ "—Depth 6 $\frac{1}{4}$ "

If the set does not function, reverse the plug. On a-c, reversal of the plug may reduce hum.

## REPLACEMENT PARTS FOR NIPPER

Insist on Genuine Factory Tested Parts, which are readily identified and may be purchased from Authorized Dealers.

STOCK NO.	DESCRIPTION	STOCK NO.	DESCRIPTION
<b>Chassis Assembly</b>		<b>Chassis Assembly (Cont'd.)</b>	
73867	Capristor-56 MMF & 33 Ohms (C4,R3) Capacitor-180 MMF. 20% 300 Volts (C3, C14)	S-5682*	Transformer-1st I.F.Trans.(C10,C11,L3, L4)
"	-390 MMF. 20% 350 Volts(C17)	S-5683*	Transformer-2nd I.F.Trans.(C12,C13, L5,L6)
"	-.005 MFD.20% 400 Volts(C18)	S-5686*	Transformer-Output Transformer (T1)
"	-.01 MFD. 20% 200 Volts(C16)	<b>Speaker Assembly</b>	
"	-.02 MFD. 10% 600 Volts(C20)	S-5575*	Cone-Cone & voice coil assy. (L7)
"	-.05 MFD. 20% 200 Volts(C5)	S-5828*	Speaker
"	-.05 MFD. 20% 400 Volts (C9)	<b>Miscellaneous Assemblies</b>	
"	-.1 MFD. 10% 400 Volts(C8)	S-5674*	Cabinet-Brown
S-5688*	-Electrolytic 30-50 MFD. (C21,C22)	S-5675*	Cabinet-Ivory
S-5685*	Condenser-Gang Condenser(C1,C2,C6,C7)	S-5676*	Cabinet-Green
S-5684*	Control-Volume Control (R7)	S-5677*	Cabinet-Rose
S-5687*	Coil-Oscillator Coil (L2)	S-5678*	Cabinet-White
	Resistor-100 Ohms 20% 1/2 watt	S-5817*	Cabinet-Blue
	Resistor-150 Ohms 20% 1/2 watt (R4)	S-5818*	Cabinet-Tera-Cota
	(2nd production)	S-5819*	Cabinet-Yellow
	Resistor-150 Ohms 10% 1/2 watt (R10)	S-5681*	Cover-Back cover assy. includes loop antenna
	Resistor-1200 Ohms 10% 1 watt (R11)	S-5679*	Knob-Tuning (Ivory)
	Resistor-22000 Ohms 20% 1/2 watt(R2)	S-5680*	Knob-Volume control (Ivory)
	Resistor-220000 Ohms 20% 1/2 watt(R12)	S-5826*	Loop-Loop Antenna only
	Resistor-470000 Ohms 20% 1/2 watt(R8, R9)	S-5827*	Cover-Back cover only
	Resistor-1 megohm 20% 1/2 watt (R1)		
	Resistor-3.3 megohm 20% 1/2 watt(R6)		
	Resistor-10 megohm 20% 1/2 watt (R5)		
	* Indicates new stock items.		

(When ordering parts please indicate Nipper, 1950 Model)

Only items listed under stock numbers are available as Replacement Parts.

All parts are subject to change or withdrawal without notice.

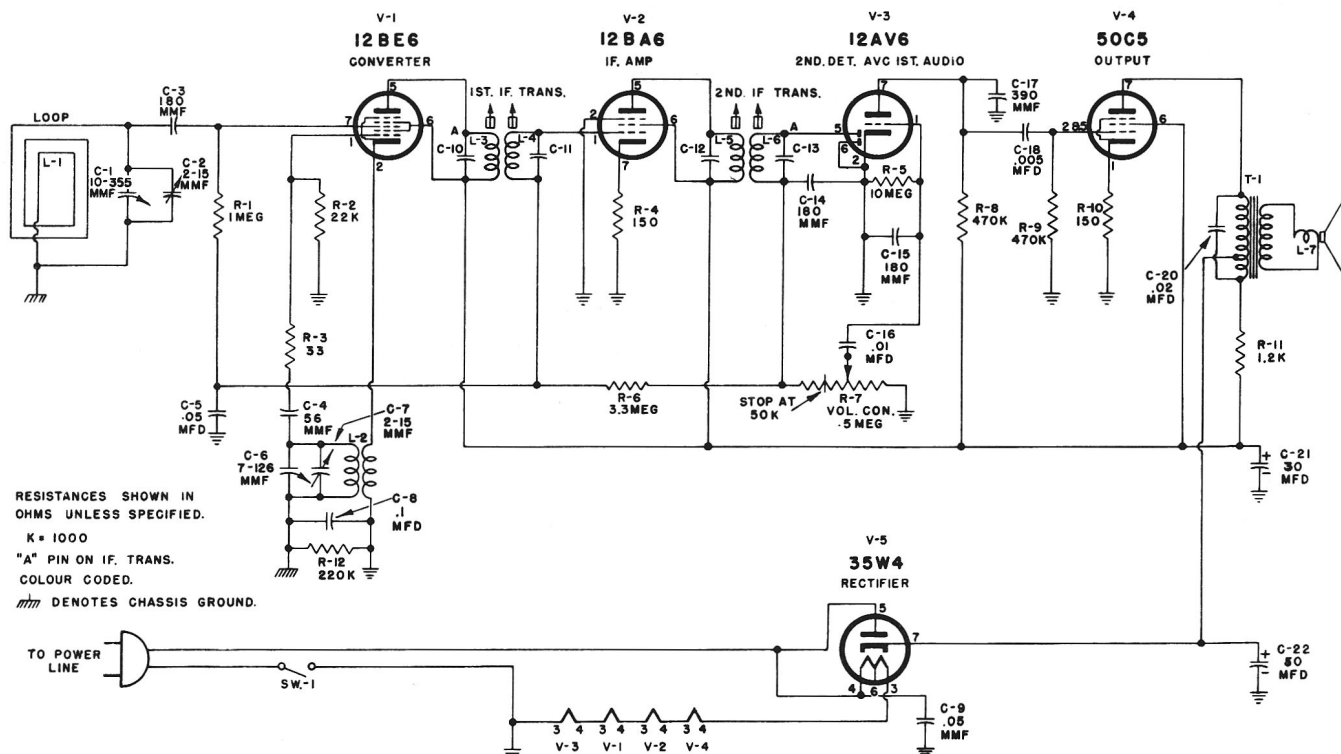


Fig. 1—Schematic Diagram

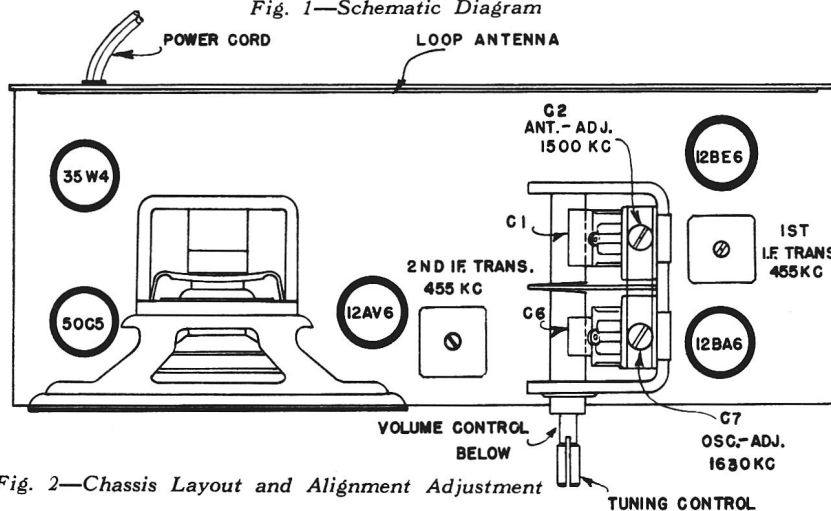


Fig. 2—Chassis Layout and Alignment Adjustment

### Alignment Procedure

Before aligning the receiver, set the gang condenser for maximum capacity and then set the dial knob opposite 55 on left hand end of the dial.

When only a portion of the circuit is to be aligned select the required portion and perform all the remaining steps.

In order to obtain best results, it is advisable to align the 455

KC I.F.'s with the help of a cathode ray oscilloscope. The scope should be connected across the volume control. If this equipment is not available, use the method outlined below in the alignment chart.

NOTE: If the test-oscillator is ac/dc operated, it may be necessary to use an isolation transformer (117 v./117 v. for the receiver during alignment.

### Alignment Chart

TEST OSCILLATOR					RECEIVER				
Order of Alignment	Connect "HI" Side To	Connect "LO" Side To	Dummy Antenna	Frequency Setting	Range Selector	Receiver Dial Setting	Circuit To Adjust	Adjust Adjustment Symbols	Notes
I.F. ALIGNMENT	1	12BA6 Pin #1	Gnd.	.1 Mfd	455 KC	"HI" End	2nd I.F. Trans.	Top & Bottom cores	Max.Out.
	2	12BE6 Pin #7	Same	Same	Same	Same	1st I.F. Trans.	Top & Bottom cores	Same
S.B. ALIGNMENT	3	Radiate signal			1600 KC	1600 KC	Osc.	C-7	Same
	4	Same			1500 KC	1500 KC	Osc.	C-2	Same
	5	Repeat Steps 3 & 4.							